

## 56<sup>th</sup> Street and Earll Drive

### Boundaries:

The site is bounded approximately to the north by Earll Drive, to the south by McDowell Road, to the east by 56<sup>th</sup> Street, and to the west by 36<sup>th</sup> Street (see attached map).

### Site History:

- The site was originally investigated as part of the Motorola 52nd Street National Priorities List (NPL) site. However, groundwater data indicated that there were two separate and distinct areas of contamination. Therefore, the site was disassociated from the larger Motorola 52nd Street NPL site in 1989.
- The site was placed on the WQARF Registry on June 2, 2004 due to the presence of tetrachloroethene (PCE) and trichloroethylene (TCE) in the groundwater at levels that exceed their Arizona Aquifer Water Quality Standard (AWQS) of 5 micrograms per liter ( $\mu\text{g/L}$ ). The current maximum PCE and TCE levels present in the groundwater are 58  $\mu\text{g/L}$  and 1000  $\mu\text{g/L}$ , respectively. Arsenic has also been found in private irrigation wells near the site at levels that exceed the AWQS of 50  $\mu\text{g/L}$ . At this time, it is not known if the arsenic is naturally occurring or is contamination from the site. The eligibility and evaluation (E&E) score for placement on the WQARF Registry was 40 out of 120.
- Motorola began investigation of the 56th Street facility in 1985. Investigations were conducted in stages and included:
  - ▶ Investigation of possible source locations
  - ▶ Soil borings and sampling program
  - ▶ On- and off-site site soil gas investigations
  - ▶ Off-site soil gas investigation identified five potential source areas for VOC contamination
  - ▶ Installation of 28 groundwater monitor wells
  - ▶ Groundwater sampling program (currently semi-annual)
  - ▶ Aquifer tests and groundwater modeling
  - ▶ Investigation of inorganic constituents found in groundwater
- The following early response activities have been conducted by Motorola:
  - ▶ Abandonment of on-site dry wells (1993)
  - ▶ On-site SVE system installed in 1994
  - ▶ On-site soil excavation (1996)

**Site Status:**

- Freescale Semiconductor Inc., a wholly owned subsidiary of Motorola Inc. has agreed to implement an early response action (ERA) evaluation for the site due to increasing levels of TCE along the western margin of the monitor well network. Motorola has completed site characterization work at the site. However, a remedial investigation in accordance with A.A.C. R-18-16-406 has not been initiated.
- Freescale installed additional monitor wells during the 3<sup>rd</sup> Quarter 2005 to the west and southwest of the TCE contaminant plume to further delineate the extent of groundwater contamination.
- Following installation and sampling of these wells, an ERA Evaluation will be conducted to evaluate potential impact to a down-gradient SRP well.

**Site Hydrogeology:**

- The depth to groundwater in the area ranges from approximately 13 to 58 feet below ground surface (bgs).
- Groundwater flow in the site area is to the southwest.

**Contaminants:**

The current contaminants of concern in groundwater include tetrachloroethene (PCE), trichloroethene (TCE) and arsenic. Contaminants of concern at the site may change as new data become available.

**Public Health Impact:**

There is no known public health impact to drinking water because there are no known drinking water wells within site boundaries.

**Community Involvement Activities:**

A community advisory board has not been formed for this site.

**Information Repository:**

Interested parties can review site information at the ADEQ main office located at 1110 West Washington Street, Phoenix. With 24 hour notice, an appointment to review relating documentation is available Monday through Friday from 8:30 a.m. to 4:30 p.m., at the ADEQ Records Management Center, 1110 W. Washington Street in Phoenix, Arizona. Please contact (602) 771-4380 or (800) 234-5677 to schedule an appointment to review these documents.

**Contacts:**

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\*In Arizona, but outside the Phoenix area, call toll-free at (800) 234-5677.